

Exhibit 1

UNITED STATES DISTRICT COURT

FOR THE NORTHERN DISTRICT OF CALIFORNIA

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IN RE: WELLS FARGO :

MORTGAGE :

DISCRIMINATION : Civil Action No.

LITIGATION. : 3:22-cv-00990-JD

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Tuesday, April 9, 2024

Washington, D.C.

Videotaped Deposition of:

AMANDA KURZENDOERFER, Ph.D.,

called for oral examination by counsel for Wells
Fargo, pursuant to notice, at the law offices of
McGuire Woods, LLP, 888 16th Street, Northwest, Suite
500, Washington, D.C. 20036, before Christina S.
Hotsko, RPR, CRR, of Veritext Legal Solutions, a
Notary Public in and for the District of Columbia,
beginning at 10:06 a.m., when were present on behalf
of the respective parties:

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1 that's based on a similarly situated analysis,
2 correct?

3 MR. BLISS: Objection. Vague.

4 THE WITNESS: I have an entire section of
5 the report that's devoted to regression analysis 11:07:46
6 that similarly situates applicants. So I have
7 much to say about applicants that are similarly
8 situated. But --

9 BY MS. LIAS-BOOKER:

10 Q. But you -- 11:07:58

11 A. -- this is ECS analysis, and --

12 Q. Which is --

13 A. -- I'm demonstrating -- summarizing the
14 data that show that minority applicants are more
15 likely to be classified into higher risk classes, 11:08:07

16 just raw data. And then conditional on being in
17 those risk classes, they're less likely to be
18 approved.

19 So in that sense, the applicants are
20 similarly situated because I can look at the 11:08:20
21 proportion of white borrowers, white applicants
22 and black applicants, Hispanic applicants, Asian

1 class?

2 A. No, I did not.

3 Q. In examining the home equity credit grade
4 or AUS recommendation, did you examine the
5 attributes that those systems consider in arriving 11:42:51
6 at their results?

7 A. I did not.

8 MR. BLISS: Objection to form.
9 (Kurzendoerfer Deposition Exhibit 695
10 marked for identification and attached to 11:43:48
11 the transcript.)

12 BY MS. LIAS-BOOKER:

13 Q. Dr. Kurzendoerfer, let me show you what's
14 been marked as Deposition Exhibit 695.

15 Do you recognize that document? 11:43:55

16 A. I do.

17 Q. Okay. And for the record, that is the
18 home lending conventional original custom ECS
19 score model number 1190, document version 7.0.
20 And the Bates number at the bottom of the page 11:44:09
21 starts at WF00079826, correct?

22 A. It's model 11960. But yes.

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1 report is not responding to anything that

2 Dr. Courchane says about the distribution of

3 credit risk classes by race, correct?

4 A. That's a specific question. But she does

5 introduce business justification for the 13:14:24

6 ECS model.

7 Q. But I'm asking solely about distribution

8 of credit risk class by race.

9 A. Right.

10 Q. Okay. So figures 2 through 4 of your 13:14:32

11 rebuttal are not based on any regression analysis;

12 is that right?

13 A. That's correct.

14 Q. Okay. And you also don't report whether

15 any of the results shown in figures 2 through 4 13:14:49

16 are statistically significant, correct?

17 A. I don't report them. I've since checked

18 and I know that a number of them are.

19 Q. But in your rebuttal --

20 THE REPORTER: Are or are not? 13:15:08

21 THE WITNESS: Are.

22

1 guidance.

2 A. Correct.

3 Q. Is there --

4 A. Wells Fargo's approach.

5 MR. BLISS: Objection to form. 13:24:19

6 BY MS. LIAS-BOOKER:

7 Q. Is there a particular document you relied
8 on?

9 A. I relied on their fair lending model
10 development documents. 13:24:25

11 Q. Okay. Now, in figures 2 through 4,
12 though -- okay.

13 In your affirmative report, you did not
14 think the FICO score sufficed to similarly situate
15 applicants, correct? 13:24:57

16 A. Correct.

17 Q. Every model looked at other legitimate
18 underwriting factors, debt-to-income, for example,
19 and combined loan-to-value ratios, correct?

20 A. Correct. 13:25:05

21 MR. BLISS: Objection to form.

22

1 need an answer to my question.

2 And my question was, and figures 2
3 through 4 in your rebuttal report do not similarly
4 situate applicants with respect to all key
5 legitimate underwriting factors, do they? 13:26:10

6 A. Correct.

7 Q. Okay. Turning to figure 5 of your
8 rebuttal report, that is also not based on any
9 regression analysis, correct?

10 A. Correct. 13:26:51

11 Q. And you don't report whether any of the
12 results shown in figure 5 are statistically
13 significant, correct?

14 A. I have not reported statistical
15 significance for this chart. That's correct. 13:27:06

16 Q. And for this one, you didn't perform any
17 test of whether any of the results shown in that
18 figure are statistically significant?

19 A. I don't think so. But based on my
20 experience in statistics and knowing the size of 13:27:15
21 counts here, I would suspect that the differences
22 are statistically significant.

1 the Wells Fargo ECS model.

2 Q. And you made no attempt to similarly
3 situate applicants in figure 5, correct?

4 A. I'm just reporting differences in
5 approval rates. No.

13:29:58

6 Q. Thank you.

7 In figure 5, do you treat external AUS
8 results of approved ineligible as an approval?

9 A. Yes, I do.

10 Q. In paragraph 19 of your rebuttal report, 13:30:07
11 you write -- and I'm quoting -- Dr. Courchane
12 failed to consider Wells Fargo's alternative of
13 not using a disparately impactful custom scoring
14 model in addition to standard credit scores.

15 Did I state that correctly? 13:30:48

16 A. Yes.

17 Q. And by standard credit scores, did you
18 mean something like FICO scores?

19 A. Yes.

20 Q. Do you think that automated underwriting 13:31:14
21 systems play the same role in underwriting as
22 credit scores?

1 applicants; is that right?

2 A. Yes. That's correct.

3 Q. Okay. So do you take this as evidence

4 that there is no discrimination against Asian

5 applicants for nonconforming loans? 13:38:01

6 A. No.

7 Q. Okay. And why not? Because the --

8 figure 7 is just raw numbers?

9 A. Correct.

10 Q. To understand whether there is a 13:38:07

11 disparate impact, you can't look only at approval

12 rates by race. You agree with me?

13 A. To understand whether there's a

14 statistical difference not driven by underwriting

15 factors, then yes, I agree that you can't look at 13:38:25

16 the raw uncontrolled numbers.

17 Q. Don't you need to similarly situate

18 applicants in order to understand if there's a

19 disparate impact?

20 A. I'm looking at statistical differences, 13:38:36

21 not specifically disparate impact. So that's -- I

22 would restate that as we need to similarly situate

1 specific characteristics of the loan and
2 creditworthiness?

3 A. Yes, as I list specifically -- more
4 specifically in paragraph 65.

5 Q. Okay. 13:42:31

6 A. Applicant or co-applicant credit score,
7 et cetera.

8 Q. Now -- and forgive me if I asked this
9 already, but how did you determine what the key
10 underwriting -- oh, skip that. 13:42:41

11 What experience do you have in
12 underwriting?

13 A. I'm not an underwriter.

14 Q. Any training in underwriting?

15 A. No. 13:42:55

16 Q. Any education in underwriting?

17 A. No.

18 Q. Ever been employed by a home mortgage
19 lender?

20 A. No. 13:42:58

21 Q. Ever been employed by Fannie Mae or
22 Freddie Mac?

1 A. No.

2 Q. Do you know what a regulatory exam is as
3 it relates to a financial institution?

4 A. Yes.

5 Q. And how do you know that? Just from an 13:43:06
6 article or book you've read?

7 A. Just from my -- yes, reading and
8 research.

9 Q. Have you ever conducted a fair lending
10 regulatory exam of a mortgage lender? 13:43:15

11 A. No.

12 Q. Have you ever represented a mortgage
13 lender in a fair lending regulatory exam?

14 A. No.

15 Q. Now, in your CV, you claim to be an 13:43:23
16 expert in fair lending and disparate impact
17 analysis. So I'm assuming that none of that
18 included home mortgage underwriting, correct?

19 A. No underwriting.

20 Q. And am I correct that your fair lending 13:43:46
21 experience is limited to the Citibank case?

22 A. Citibank case and another case that is

1 Q. And you did nothing to determine why
2 incomplete applications had such an impact on the
3 size of the results that you report.

4 A. I'm not sure what I could have done. I
5 don't know --

13:56:09

6 Q. I'm just asking, did you do anything?

7 A. I didn't do anything.

8 Q. Okay.

9 A. No.

10 Q. Your HMDA control specification controls 13:56:15
11 for external AUS outcome; is that right?

12 A. Yes.

13 Q. So does your HMDA and Wells Fargo control
14 specification, correct?

15 A. Correct. 13:56:30

16 Q. And in footnote 67 in your report on
17 page 20, I believe, you list the codes you
18 consider to be an approval by an external AUS; is
19 that right?

20 A. Yes. 13:56:49

21 Q. Okay. And are these the same codes you
22 used to determine approval by an external AUS in

1 your regression models?

2 A. Yes.

3 Q. And you consider both approve eligible
4 and approve ineligible to be approvals; is that
5 right?

13:57:15

6 A. I do because they meet the credit risk
7 standards of the GSEs.

8 Q. And you consider -- but one is approve
9 eligible and the other one is approve ineligible;
10 is that right?

13:57:33

11 A. Yes.

12 Q. And you consider both accept eligible and
13 accept ineligible to be approvals, correct?

14 A. I consider them to be approvals in that
15 they satisfy the credit risk standards of the
16 GSEs.

13:57:40

17 Q. In deciding to treat approve ineligible
18 and accept ineligible results as approvals, did
19 you consider how those results affect the
20 sellability or insurability of these loans?

13:58:03

21 A. That's not what I was trying to do in the
22 analysis.

1 risk standards.

2 Q. Were you aware, when you were drafting
3 this report, that Fannie Mae treats loans
4 underwritten with desktop underwriter differently
5 from what it calls manually underwritten loans? 13:59:43

6 A. Yes.

7 Q. And deciding to treat approve in eligible
8 results as approvals, did you consider how the
9 difference between desktop underwriter and
10 manually underwritten loans affects the risk 13:59:58
11 Wells Fargo carries in the event of a borrower's
12 default?

13 A. Like I said previously, I didn't analyze
14 risk.

15 Q. And are you aware of the fact the 14:00:09
16 difference between an agency and a nonagency loan
17 is that an agency loan gets sold to Fannie Mae or
18 Freddie Mac, right?

19 A. Yes.

20 Q. If someone applies for an agency loan, 14:00:20
21 whether or not the loan can actually be sold to
22 Fannie Mae or Freddie Mac, it is very important

1 from an underwriting perspective, isn't it?

2 MR. BLISS: Objection. Vague.

3 BY MS. LIAS-BOOKER:

4 Q. If someone -- you understood what I

5 asked? 14:00:38

6 A. It's important from Wells Fargo's,

7 perhaps, risk assessment. But from an

8 underwriting perspective, as to whether it should

9 be used to gauge whether someone is deserving of a

10 loan or not based on their credit standards, I... 14:00:57

11 Q. Doesn't underwriting go to risk? It goes

12 to the bank's risk, right? Isn't that why we

13 underwrite loans?

14 A. And to provide credit.

15 Q. Yes. But one of the elements is risk to 14:01:02

16 the bank, correct?

17 A. Correct.

18 Q. Okay. The difference between a

19 government loan and a conventional loan is that a

20 government loan gets insured by FHA, VA, or USDA. 14:01:09

21 Are you aware of that?

22 A. Yes.

1 analysis that minority applicants are more likely
2 to be assigned to a lower credit risk class, and,
3 conditional on that, are likely to have lower
4 approval rates.

5 So that is a policy that I've analyzed. 14:48:00
6 I've analyzed overlays in my rebuttal report.
7 Those two things are separate and distinct from
8 the regression analysis, which is simply to
9 attribute -- which is to look at key underwriting
10 factors and to understand whether they can explain 14:48:15
11 the disparities in approval rates, and they can't.
12 BY MS. LIAS-BOOKER:

13 Q. So your regression analysis is not tied
14 to a particular Wells Fargo policy; isn't that
15 correct? 14:48:27

16 A. Correct.

17 MR. BLISS: Objection to form. Vague.

18 BY MS. LIAS-BOOKER:

19 Q. You mentioned several times today about
20 the C1/C2 policy. And in footnote 92 in your 14:49:46
21 report you noted the existence of two policy --
22 oh, sorry.

1 AUS returned an accept result?

2 A. I don't recall.

3 Q. Did you review any loan applications?

4 A. I reviewed --

5 MR. BLISS: Objection. Asked and 15:03:22
6 answered.

7 THE WITNESS: I reviewed the data. I did
8 not review loan files.

9 BY MS. LIAS-BOOKER:

10 Q. Wells Fargo has a lot of credit 15:03:32
11 policies -- big thick binders of credit policies,
12 correct?

13 A. I believe so.

14 Q. Is there any particular reason why you
15 chose the three in your rebuttal report to 15:03:46
16 discuss?

17 A. These seemed --

18 MR. BLISS: Objection.

19 THE WITNESS: These seemed obviously
20 related to minority applicants because, based on 15:03:53
21 my work so far, I know that minority applicants
22 disproportionately have lower credit scores and

1 higher DTI.

2 BY MS. LIAS-BOOKER:

3 Q. You weren't directed to look at those
4 particular policies by counsel?

5 MR. BLISS: Objection to form. 15:04:14

6 THE WITNESS: I was --

7 MR. BLISS: Objection. Rule 26 as well.

8 MS. LIAS-BOOKER: What's the Rule 26
9 objection?

10 MR. BLISS: Work product. 15:04:29

11 MS. LIAS-BOOKER: Oh. So you're
12 instructing her not to answer? I think we can --

13 MR. BLISS: No, you can answer. I'll let
14 her answer.

15 MS. LIAS-BOOKER: Yeah, yeah, yeah. 15:04:45

16 MR. BLISS: I think it's work product,
17 but I'll let her answer. Or it could be.

18 THE WITNESS: I looked through the
19 overlay spreadsheet, scrolled through it, and
20 discussed with counsel the overlays. 15:04:54

21 BY MS. LIAS-BOOKER:

22 Q. Were any of the named plaintiffs' loan

1 BY MS. LIAS-BOOKER:

2 Q. You identify proposed classes or
3 subclasses as minority applications decisioned
4 before 2023 that received at least one approval
5 from an external AUS for -- from Wells Fargo's ECS 16:17:32
6 model or home equity automated decision engine but
7 that were ultimately denied by Wells Fargo.

8 And I'm specifically looking at
9 paragraph 86 of your report.

10 A. That's not a definition that I created, 16:17:59
11 but yes, that's the definition of the class.

12 Q. And that definition was created by the
13 lawyers --

14 A. That's my understanding.

15 Q. -- for the plaintiffs. Okay. 16:18:10

16 Now, in footnote 109, you state that --
17 you state what counts as an approval for purposes
18 of the proposed class definition, correct?

19 A. Correct.

20 Q. Okay. And you include G1 and G2 results 16:18:35
21 as approvals; is that right?

22 A. That's correct.

1 Q. And those are results of the Wells Fargo
2 government ECS model, correct?

3 A. That's correct.

4 Q. You don't count G3 or manual results as
5 approvals, though; is that right? 16:18:53

6 A. That's correct.

7 Q. Is that distinction based on a policy
8 difference in how they are treated?

9 A. That distinction is based on the data. I
10 can see that approval rates are higher for G1 and 16:19:03
11 G2, so that means they're more associated with an
12 application being approved than G3.

13 Q. And is that the sole basis for the
14 distinction you draw?

15 A. That's my basis. 16:19:19

16 Q. Do you have any basis for treating G1s
17 and G2s as approvals but G3s and manuals as
18 denials?

19 A. My basis is on the approval rates.

20 Q. And that was not tied or based on any 16:19:41
21 policy document for Wells Fargo, just simply the
22 approval rate numbers.

1 A. These were chosen to establish a baseline
2 level of creditworthiness, and so it's based on --
3 purely on approval rates.

4 Q. That you picked. You drew the line --

5 MR. BLISS: Objection to form. 16:20:06

6 BY MS. LIAS-BOOKER:

7 Q. -- right, in terms of what you were going
8 to include and not include, correct?

9 A. I presented the information --

10 Q. Okay. 16:20:14

11 A. -- to the lawyers.

12 Q. And a decision was made to include those
13 groups --

14 A. That's correct.

15 Q. -- and not others. 16:20:19

16 Okay. Now, you also include G70, G80,
17 and G90 as approvals.

18 Those are Wells Fargo home equity credit
19 grades; is that right?

20 MR. BLISS: Where are you looking? I'm 16:20:43

21 sorry, I'm not -- are we still on footnote -- oh,

22 I see. 109.

1 Q. You consider external AUS results that
2 say that an application is ineligible for the
3 program applied for as an approval, right?

4 A. That's one of the --

5 MR. BLISS: Objection to form. 16:24:03

6 THE WITNESS: That's one of the approval
7 codes. Those could occur in conjunction with
8 ineligible. Yes.

9 BY MS. LIAS-BOOKER:

10 Q. Did plaintiffs' counsel also tell you to 16:24:11
11 count those ineligible results as approvals?

12 A. Plaintiffs' counsel told me that these
13 are the criteria for the class.

14 Q. And that included the ineligibles?

15 A. Yes. 16:24:28

16 Q. Do you know how many non-Hispanic white
17 applicants would meet the proposed class
18 definition but for the fact that they are not
19 minorities?

20 MR. BLISS: Objection to form. 16:24:43

21 THE WITNESS: I have looked at that
22 number.

1 is calculated?

2 A. I don't know that it is or that it's not.

3 But if the -- those models are saying that the

4 borrower is approved based on creditworthiness,

5 and yet there's no benefit to the borrower, that 16:33:27

6 seems like a disconnect to me. Not that it

7 couldn't happen, but I don't -- I haven't looked

8 at the correlation between those two things.

9 Q. I'll come back to that.

10 Does your proposed class exclude 16:33:39

11 applications that were denied because they were

12 incomplete?

13 MR. BLISS: Objection to form. Lack of

14 foundation.

15 THE WITNESS: No. 16:33:52

16 MR. BLISS: And mischaracterizes the

17 evidence -- or the testimony.

18 BY MS. LIAS-BOOKER:

19 Q. Your proposed class --

20 MS. LIAS-BOOKER: Give me one second. 16:34:02

21 BY MS. LIAS-BOOKER:

22 Q. Okay. Your proposed class does not

1 in your report yield a predicted probability of
2 approval for each application based on the factors
3 controlled for by that model, correct?

4 A. Correct.

5 Q. Did you limit inclusion in your list of 16:40:02
6 proposed class members to applications that your
7 models predicted had a better than 50 percent
8 probability of approval?

9 A. No.

10 Q. So your list of proposed class members 16:40:15
11 includes applications that your own models predict
12 would -- likely would have been denied, regardless
13 of race, correct?

14 MR. BLISS: Objection to form.

15 THE WITNESS: That's not the purpose of 16:40:28
16 the model. It's not -- the purpose of the model
17 is not to predict. It's to identify marginal
18 effects for race.

19 BY MS. LIAS-BOOKER:

20 Q. But my question to you that I need an 16:40:41
21 answer to is, your list of proposed class members
22 includes applications that your own models predict

1 would likely have been denied, regardless of their
2 race, correct?

3 MR. BLISS: Objection to form -- form.

4 THE WITNESS: Yes. And --

5 MR. BLISS: Mischaracterizes -- sorry, go 16:41:05
6 ahead.

7 THE WITNESS: Yes. And the reason that I
8 did that is because it's not a predictive model.

9 BY MS. LIAS-BOOKER:

10 Q. But the logic [sic] regression report you 16:41:18
11 did yielded a predicted probability of approval
12 for each application, correct?

13 A. It does.

14 Q. Okay. Please turn to table A7.2 of
15 Dr. Courchane's rebuttal report. And looking 16:41:33
16 at -- I think it's at page 73.

17 Do you see the predicted probabilities of
18 approval for named plaintiff Bryan Brown?

19 A. I do.

20 Q. Okay. And depending on whether the 16:42:06
21 number is based on figure 24 or figure 34 of your
22 report, Dr. Courchane says that the probability of

1 than it would have been had they been white
2 applications?

3 MR. BLISS: Objection to form.

4 THE WITNESS: In aggregate, yes.

5 BY MS. LIAS-BOOKER: 16:44:38

6 Q. Based on the marginal effects you report
7 in figure 34, are you able to say what percent of
8 the black refinance applications in your proposed
9 class would have been approved if they had been
10 white, according to your model? 16:44:50

11 A. No.

12 Q. Can you say confidently that at least
13 half of the proposed class would have been
14 approved had they been white based on these
15 marginal effects? 16:45:05

16 A. I can't say --

17 MR. BLISS: Objection to form.

18 BY MS. LIAS-BOOKER:

19 Q. Can you say that as to at least
20 25 percent? 16:45:11

21 MR. BLISS: Objection to form.

22 THE WITNESS: I cannot quantify that.

1 BY MS. LIAS-BOOKER:

2 Q. How about at least as to 15 percent?

3 MR. BLISS: Objection to form.

4 THE WITNESS: I don't think you can

5 answer that question. You would have to make 16:45:32

6 assumptions about at what probability should a

7 minority applicant have been approved.

8 BY MS. LIAS-BOOKER:

9 Q. So you can't tell us today whether at
10 least 15 percent would have been approved? 16:45:43

11 MR. BLISS: Objection to form.

12 BY MS. LIAS-BOOKER:

13 Q. Is that your testimony?

14 A. If we were to make certain assumptions
15 about what thresholds would -- should constitute 16:45:52
16 an approval, then I could do that calculation.

17 Q. But you have not done that, correct?

18 A. Correct.

19 Q. Does your report identify which proposed
20 class members would have been approved if they had 16:46:03
21 been white?

22 MR. BLISS: Objection to form.

CERTIFICATE OF NOTARY PUBLIC

I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

Dated: 4/12/2024

A handwritten signature in black ink, appearing to read 'CHOTSKO', with a long horizontal flourish extending to the right.

CHRISTINA S. HOTSKO

Notary Public in and for the
District of Columbia

My commission expires:

1 January 2027